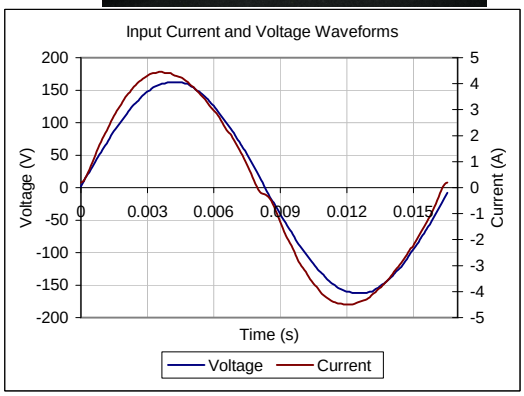
80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**86.31%**
AVERAGE EFFICIENCY :	**84.35%**
80 PLUS COMPLIANT:	**YES**

Ecos ID #	1193
Manufacturer	SUPERMICRO
Model Number	PWS-303-PQ
Serial Number	N/A
Year	2008
Type	ATX12V
Test Date	1/2/2009

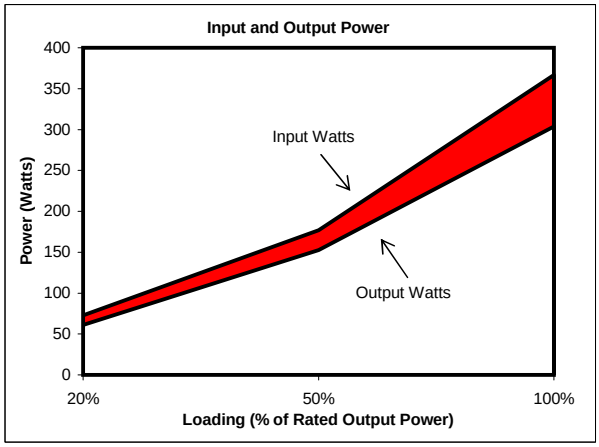
Rated Specifications	**Value**	**Units**
Input Voltage	100-240	Volts
Input Current	8/4	Amps
Input Frequency	50-60	Hz
Rated Output Power	**300**	**Watts**

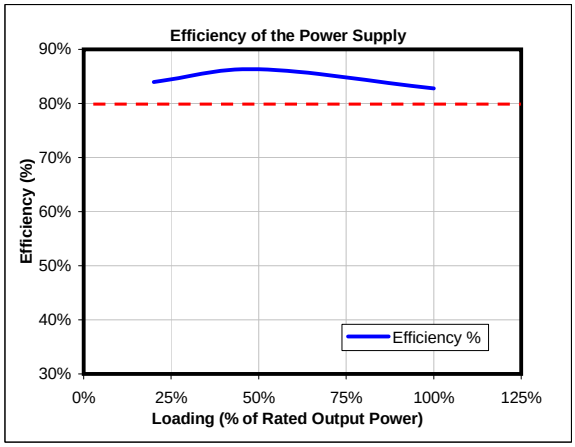
Note: All measurements were taken with input voltage at 115 V nominal and 60 Hz.



Input AC Current Waveform (ITHD = 7.62%, 50% Load)

I_{RMS} A	PF	I_{THD} (%)	Load (%)	Fraction of Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency %
						12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V*	5VSB		
0.66	0.96	15.6%	20%	**Light**	73	12.2/3.2	11.7/0	3.4/2.2	5.2/2.6	5/0.3	61	**83.95%**
1.56	0.99	7.6%	50%	**Typical**	177	12.1/7.9	11.9/0	3.4/5.6	5.2/6.6	5/0.7	153	**86.31%**
3.20	1.00	4.4%	100%	**Full**	367	12.1/15.7	12/0.1	3.4/11.1	5.1/13.2	5/1.4	304	**82.79%**





ecos plug load solutions

These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS® Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. *http://www.80plus.org/*

80 PLUS®